Concerning Imides of Phosphorus Acids. Infrared Absorption Spectra of Imidophosphates and Imidophosphonates 77069 sov/62-59-12-13/43

Thally N-methylimidophosphates are colorless liquids, easily hydrolyzed by water with formation of methylimides of dialkylphosphoric acids. They react with CS₂ as follows:

 $(NO)_3 P = NCH_3 + CS_2 \rightarrow (NO)_3 P = S + CH_3 NCS.$

E. M. Popov, I. F. Lutchenko, V. N. Smorchkov, I. Ya. Kachkurova, I. V. Obreimov took part in this work. There are 4 figures; 2 tables; 12 references, 1 German, 2 U.S., 2 U.K., 7 Soviet. The 4 U.S. and U.K. references are: L. W. Daasch, J. Amer. Chem. Soc. 76, 3403, (1954); L. W. Daasch, D. C. Smith, Analyt. Chem. 23, 853 (1951); D. E. Corbridge, J. Appl. Chem. 6, 10, 456 (1956); D. E. Corbridge, E. J. Lowe, J. Chem. Soc. 1954, 4555.

Card 11/12

Concerning Imides of Phosphorus Acids. Infrared Absorption Spectra of Imido-

77069 SOV/62-59-12-13/43

phosphates and Imidophosphonates

ASSOCIATION:

Institute of Element-Organic Compounds, Academy of Sciences, USSR (Institut elementoorganicheskikh soedineniy Akademii nauk SSSR)

SUBMITTED:

April 18, 1958

Card 12/12

KABACHNIK, M.I.; GILYAROV, V.A.

Imides of phosphorus acids. Report No.5: Reactions of trialkyl-phosphites with hydrazoic acid. Izv.AN SSSR.Otd.khim.nauk no.5: 816-818 My '61. (MIRA 14:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphorous acid) (Hydrazoic acid)

KABACHNIK, M.I.; GILYAROV, V.A.

Imides of phosphorus acids. Report No.6: Trialkyl-N-acylimidophosphates. Izv.AN SSSR.Otd.khim.nauk no.5:819-823 My '61. (MIRA 14:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphoric acid)

KABACHNIK, M.I.; GILYAROV, V.A.; POPOV, Ye.M.

Imides of phosphorus acid. Report 7: Amideimidolic tautomerism of amides of pentavalent phosphorus acids. Izv.AN SSSR, Otd.khim.nauk no.6:1022-1030 Je *61. (MIRA 14:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphosus acids) (Amides)

KARACHNIK, M.I.; GILYAROV, V.A.; POPOV, Ye.M.

Tautomerism of phosphamidines. Zhur.ob.khim. 32 no.5:1598-1604
My '62.

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Phosphorus acids) (Amidines) (Tautomerism)

GILYAROV, V.A.

"Tautomerism of certain imides of phosphorus acids."

Khimiya i Primeneniye Posforcryanicheskikh Soyedineniy (Chemiatry ami application of organophosphorus commonths) A. YE. A. (H. W.). Eds. Publ. by Kazan Affil. Acad. Doi: USSR, Moscow 1962, ... W. Ob.

Collection of complete papers presented at the 199 Kazan Annarrance on Chemistry of Erganophosphorus Compounds.

GILYAROV, V.A.	-	
Reaction of salts o	f dialkylphosphorus acids with dia	zomethane."
Khimiya i Primeraniy application of organ appl. by Kasan Affil	re Fosfororganicheskikh Soyedismaiy naphonabarus composeds) A. (b. 2014 Acad. oci. USSH, Mosnow 1962, A	- (Chemiatry and arr, ho. 32 mg
Collection of comole Chemistry of premisery	te capers presented at the 1743 Ka Bosphorus Compounds.	idi. Son, er e nce (n)

CIA-RDP86-00513R00051671

KABACHNIK, M.I.; GILYAHOV, V.A.; CHZHAN CHZHEN-DE[Chand Cheng-tieh]; MATROSOV, Ye.I.

Problem of tautomerism of N-acylamidophosphates and N-acylamidophosphinates.
Izv.AN SSSR.Otd.khim.nauk no.9:1589-1599 S '62. (MIRA 15:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Phosphoramidic acid) (Phosphinamidic acid) (Tautomerism)

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051671

B

L 54446_65 EWT(m)/EPF(c)/FCC/EWP(5)/FCS(f)/T/EWP(n)/EWA(c) Pc_4/Pr_4 RPL ACCESSION NR: AP5012451 JN/RM UR/0062/65/000/004/0665/069 541 3/

AUTHORS: Kabachnik, M. I.; Gilyarov, V. A.; Chang, Cheng-te

TITIE: Trialkyl-n-acylimidophosphates as conjugate systems

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 4, 1965, 665-669

TOPIC TAGS: conjugate system, phosphate, alkylation

ABSTRACT: Trialkyl-n-acylimidophosphates as conjugate systems were investigated, and it is shown that these compounds enter into substitution reactions according to 1,2; 1,4; and 1,6 types. The 1,2 reaction was obtained by heating triethyl-n-trifluoro-acetylimidophosphate with triethylamine. In this process the nitrogen of the tertiary base underwent alkylation by triethyl phosphite. The 1,4 reaction was observed when trialkyl-n-acylimidophosphate was acted on by HCl. The imidophosphate goes to amidophosphite and alkyl halide is split off. The 1,6 reaction was encountered in the reaction of trialkyl-n-acylimidophosphate with alkyl halide. On heating trialkyl-n-acylimidophosphate with methyl iodide or ethyl bromide at 100-130C for 4-6 hours, ortho-alkyl-n-(diethyl phosphoryl) iminoacetate is formed. When this same procedure was attempted with

Card 1/2

L 54446-65

ACCESSION NR: AP5012451

triethyl-n-dichloroacetylimidophosphate (and methyl iodide), no reaction was observed. The lower reactivity of the acetylimidophosphite may be due to lower nucleophilicity of the carbonyl oxygen at the expense of the inductive effect of the CHCl₂ group. Actually, triethyl-n-trifluoro-acetylimitechosphate reacts reactly with triethylamine whereas unsubstituted triethyl-n-acetylimidophosphate does not react with triethylamine under the same conditions. It is therefore maintained that the tetrahedral phosphorus atom may enter the conjugate chain 6 5 4 3 2 1

0 = 6 - N = P - 0 - C. Orig. art. has: 1 table and 10 formulas.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy, Akademii nauk SSSR (Institute of Hetero-Organic Compounds, Academy of Sciences, SSSR)

SUBMITTED: 15Apr63

ENCL: 90

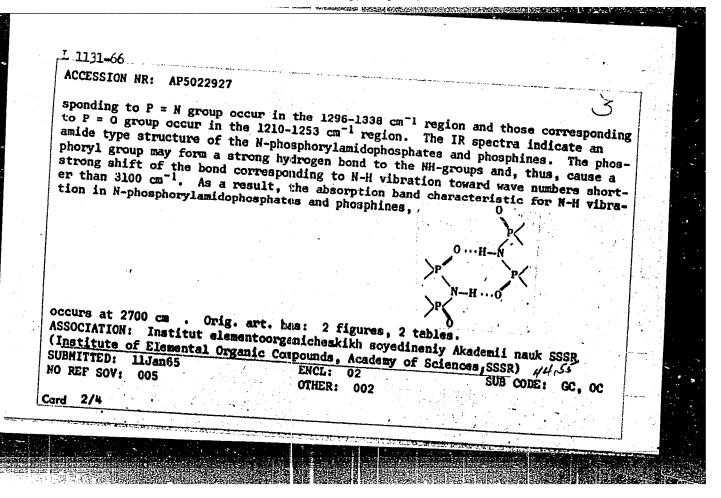
SUB CODE: OC, GC

NO REF SOV: 006

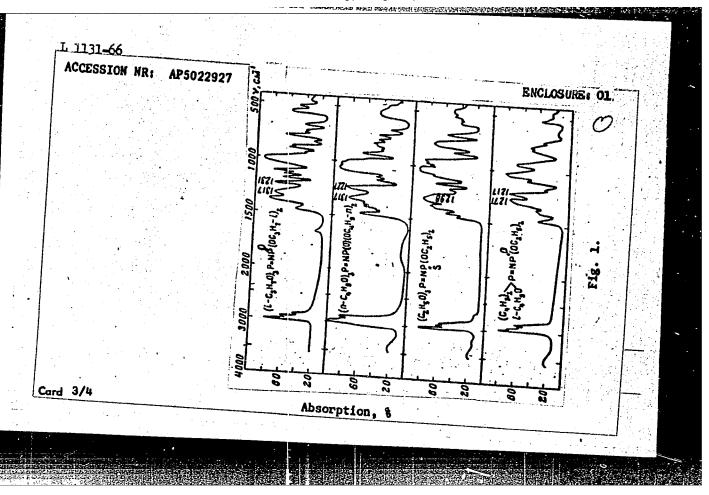
OTHER: 001

Card 2/2

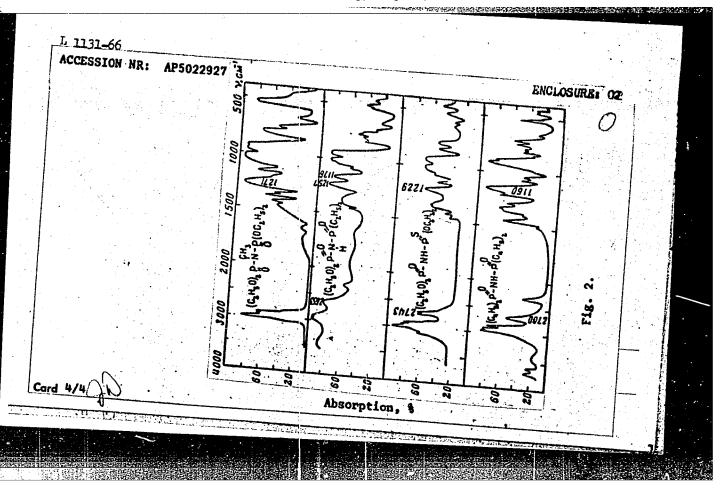
L 1131-66 EMT(m)/EPF(c)/EMP(j) RE ACCESSION NR: AP5022927 UR/0062/65/000/008/1331/1336 543.422 + 661.718.1 AUTHOR: Matrosov, Ye. I.; Gilyarov, A.: Kabachnik, M. I. TITLE: About amidoimido-tautomerism of N-phosphorylamidophosphates and phosphines SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1965, 1331-1336 TOPIC TAGS: amide, imide, tautomerism, N-phosphorylamidophosphate, phosphine, IR spectroscopy ABSTRACT: The amido-imido tautomerism of amides of acids of pentavalent phosphorus was investigated by IR spectroscopy. The IR absorption spectra of N-phosphorylimidophosphates and phosphines are shown in fig. 1 of the Enclosure. The IR absorption spectra of N-phosphorylamidophosphates and phosphines are shown in fig. 2 of the Enclosure. For the compounds in question, vibrational frequencies corre-



"APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051671

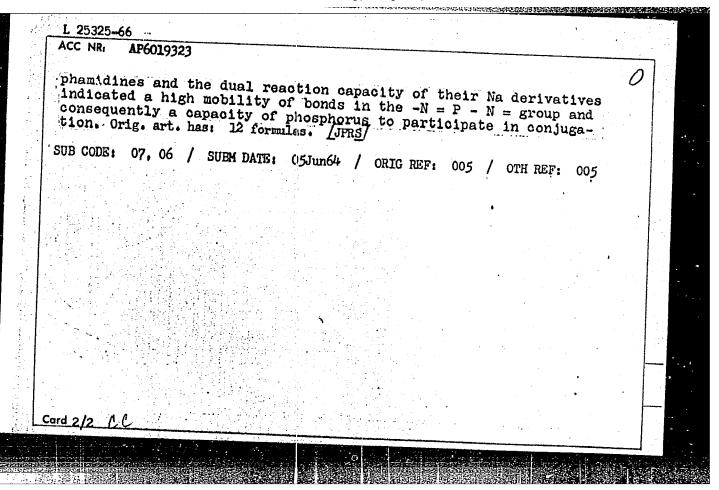


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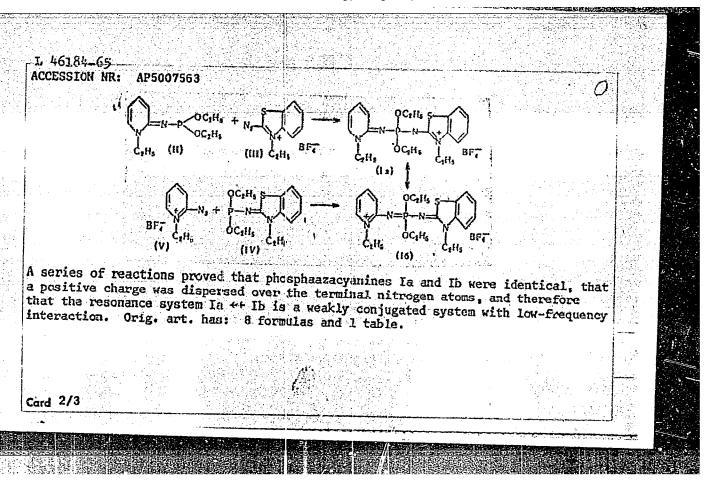


APPROVED FOR RELEASE: Thursday, July 27, 2000 CIA-RDP86-00513R00051671(

L 25325-66 ... EWP(j)/EWT(m) ACC NR AP6019323 SOURCE CODE: UR/0079/65/035/008/1476/1481 AUTHOR: Kabachnik, M. I.; Gilyarcv. V. A.; Kudryavtsev. R. V. ORG: Institute of Organoelemental Compounds, AN SSSR (Institut elementoorganicheskika TITIE: Study of conjugation in systems with a tetrahedral phosphorus atom. SOURCE: Zhurnel obshohey khimii, v. 35, no. 8, 1965, 1476-1481 TOPIC TAGS: tautomerism, organic phosphorus compound, methylation ABSTRACT: The reactions of 0,0-diethyl-N, N'-diphenylphosphamidine and of 0,0-diethyl-N-phenyl-N'-m-tolylphosphamidine with CS2 were The products were 0,0-diethyl-N-phenylamidothiophosphate and aryl isothiocyanates. Formation in the second case of a mixture of phenyl isothiocyanate and m-tolyl isothiocyanate confirmed the existence of phosphamidine tautomerism. In the methylation of Na derivatives of diarylphosphamidines with MeI, a mixture of two methylation products formed when two different aryl groups were contained in the diarylphosphamidine. between the two methylation products depended on the nature of the substituents in the aryl groups. The tautomerism of diarylphos-Card 1/2 546.1851546.171.1 UDC:



L 46184-65 EWT(m)/EPF(c)/EWP(j)/T/EWA(c) Pc-4/Pr-4 ACCESSION NR: AP5007563 S/0020/65/160/005/1079/1082 AUTHOR: Kabachnik, M. I (Academician); Gilvarov, V. A.; Yusupov, M. M. Study of conjugation in systems containing a tetrahedral phosphorus atom. Phosphaazacyanines. SOURCE: AN SSSR. loklady, v. 160, no. 5, 1965, 1079-1082 TOPIC TAGS: conjugation, phosphamidine, tautomerism, resonance, polyphosphonitrile. organic dye, heterocyclic compound, asacyclic compound ABSTRACT: The authors discuss the following resonance system in the phosphorus analogues of azacyanines: The synthesis of structures Ia, with an ammonium nitrogen in the benzthiazole ring, and Ib, with an ammonium nitrogen in the pyridine ring, was carried out as follows: **Card 1/3**



CCESSION NR: AP5007563 SSOCIATION: Institut eleme Institute of Organometallic	ntoorganiches Compounds, A	kikh s cademy	oyedineniy of Science	Akademii nauk es SSSR)	: SSSR		
SUBMITTED: 12Sep64	ENCL:	00	25 to 1	SUB CODE	: QC		
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고리는 그 생각이 보고 있다는 이 같습. 같은 하는 건설하는 이 경기를 하고 있다.							
ml Card 3/3							
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KABACHNIK, M.I., akademik; GILYAROV, V.A.; YUSUPOV, M.M.

Stable salts of alkoxyaminophosphoniums with a delocalized onium charge. Dokl. AN SSSR 164 no.4:812-815 0 $^{1}65$.

(MIRA 18:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00051671

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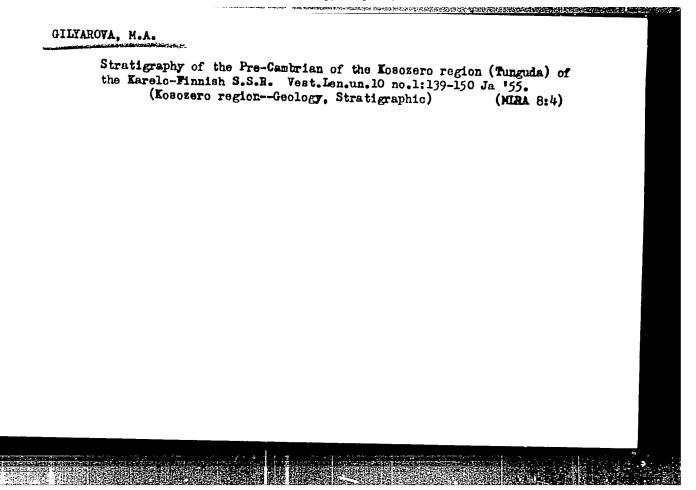
L 31272-66 EWT(m)/EWP(j)/T RM ACC NR. AP6022796 SOURCE CODE: UR/0079/66/036/002/0274/0282 AUTHOR: Gilyarov. V. A.; Tsvetkov, Ye. E.; Kabachnik, M. I. ORG: Institute of Heteroorganic Compounds, AN SSSR (Institut elementeorganicheskikh soyedineniy AN SSSR) TITLE: Imides of phosphorus acids. VIII. N-acylimidophosphates and -phosphinates and N-acylamidophosphates and -phosphinates SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 274-282 TOPIC TAGS: organic phosphorus compound, chemical synthesis, dissociation constant, organic amide, molecular structure, IR spectrum, azide, imide ABSTRACT: A series of new azidophosphates and azidophosphinates was produced by the reaction of chlorophosphates and chlorophosphinates with triethylammonium azide. N-Acylimidophosphates and -phosphinates were synthesized by reaction of acyl azides with esters of phosphorous and phosphinous acids. and then dealkylated with hydrogen chloride to the corresponding N-acylemidophosphates and -phosphinates. The concentration dissociation constants of a. number of N-acylamidophosphates were determined, and it was concluded on the basis of the Bronsted rule that these substances possess an amide, not an imidol structure. Infrared spectra of the products were also studied and will be published separately. Orig. art. has: 1 figure and 4 tables. [JPRS] SUB CODE: 07 / SUBM DATE: 10Nov64 / ORIG REF: 014 / OTH REF: 008 UDC: 546.185

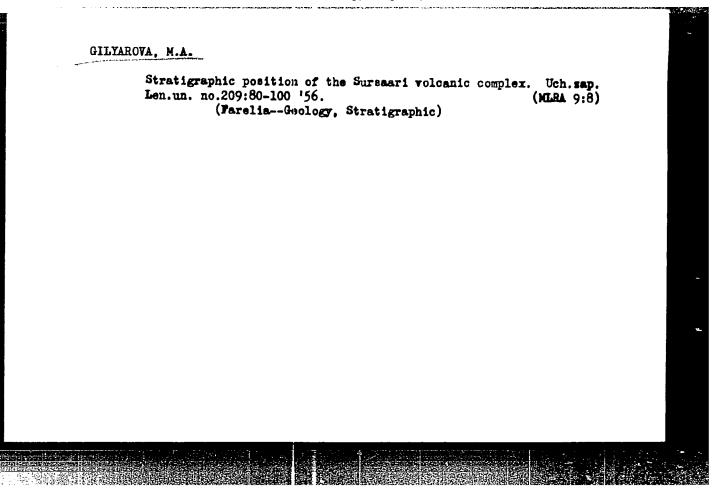
L 31273-66 EWT(m)/EWF(j)/T RM
ACC NR: APC022797 SOURCE CODE: UR/0079/66/036/002/0282/0289
AUTHOR: Gilyarov, V. A.; Kabachnik, M. I.
ORG: Institute of Heteroorganic Compounds, AN SSSR (Institut elementoorganiche skikh soyedineniy AN SSSR)
TITLE: N, N'-diarylphosphamidines and some of their properties
SOURCE: Zhurnal obshchey khimii, v. 36, no. 2, 1966, 282-289
TOPIC TAGS: organic phosphorus compound, chemical synthesis, organic amide, reaction mechanism, substituen.
ABSTRACT: A series of diethylphosphoryl-N,N'-diarylamidines and diethylphosphinyl-N,N'-diarylamidines were synthesized. The diethylphosphoryl-N,N'-diarylamidines were synthesized from diethyl chlorophosphite and arylamines through intermediate 0,0-diethyl-N-amidophosphites (some of which were synthesized for the first time). In the synthesis of diethylphosphinyl-N,N'-diarylamidines, the intermediate N-phenylamidodiethylphosphinite was produced by transamination from N-diethylamidodiethylphosphinate and amiline. The prenounced nucleophilic character of the phosphamidines was noted. A method of synthesizing 0-alkyl-N,N'-diaryldiamidophosphates with various substituents in the amido groups was found. Orig. art. has: 5 tables. [JPRS] SUB CODE: 07 / SUPM DATE: 24Feb65 / ORIG REF: 008 / OTH REF: 005
Card 1/1. UDC: 546.183:547.398.5
0/16

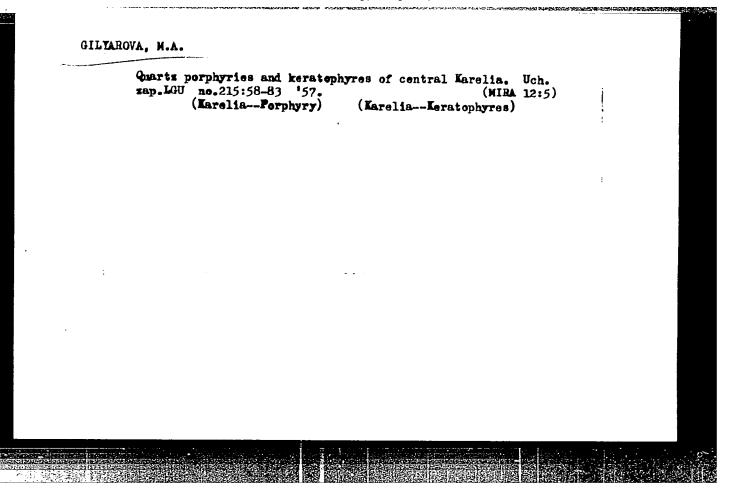
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L 34020-66 EWT(m)/EWP(1) RM ACC NR: AP6025530 SOURCE: CODE: UR (0000/// foot foot foot foot foot foot foot f	
50016H CODE: 0K/0079/66/036/001/0057/0061	
AUTHOR: Kabachnik, M. I.; Gilyarov, V. A.; Kudryavtsev, R. V.	
ORG: Institute of Hotoroorganic Compounds, AN SSSR (Institut elementoorganichoskikh soyodineniy AN SSSR)	
TITIE: Reactivity of sodium derivatives of phosphamidines. Methylation of ambident anions of N, N'-diarylphosphamidines by methyl iodide	
SOURCE: Zhurnal obshchey khimii, v. 36, no. 1, 1966, 57-61	
TOPIC TAGS: mothylation, anion, electron donor, sodium compound	
ABSTRACT: The polar influences of substituents on the course of methylation of sodium salts of N,N'-diarylphosphamidines by methyl iodide were studied. Fifteen sodium derivatives of 0,0-diethyl-N,N'-diphenylphosphamidines, substituted in the phenyl rings, were used. The course of methylation (at one of the two nitrogen atoms) was found to depend upon the nature of the substituents in the phenyl rings. The ratio of the yields of methylation products obeys a Hammett equation of the type $\log (Q_a/Q_b) = 0.757(\sigma_B - \sigma_A)$ nucleophilic nitrogen atoms found to be directed primarily toward the more	
and I table. / IPRS. 25 000/	
SUB CODE: 207 / SUBM DATE: 22Feb65 / ORIG REF: 005 / OTH 2 718 010	
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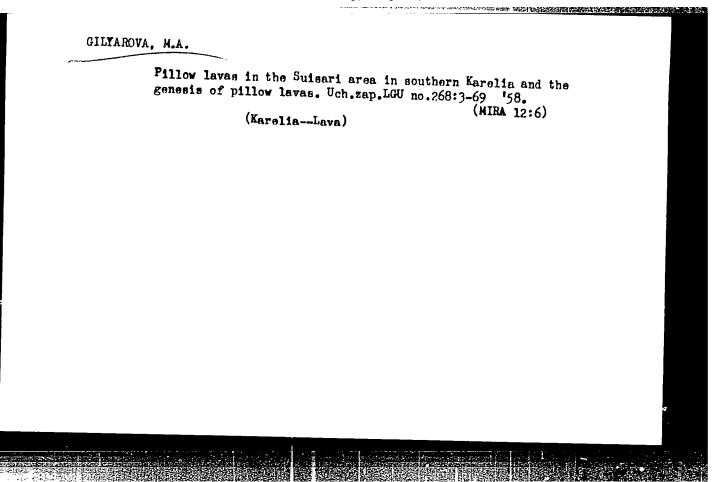
GILYAROVA, M. A. "Stratigraphy and tectonics of the karelian formation in central Karelia," Uchen. zapiski (Leningr. gos. ped. in-t im. Gertsena), Vol. LXXII, 1948, p. 125-67 --- Bibliog: 19 items

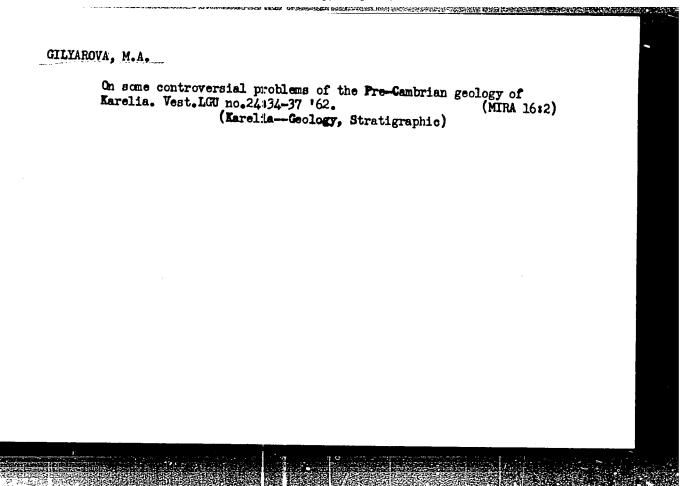
SC: U-3566, 15 Earch, 53, (Letopis 'Zhurnal 'nypk Stately, No. 14, 1949)





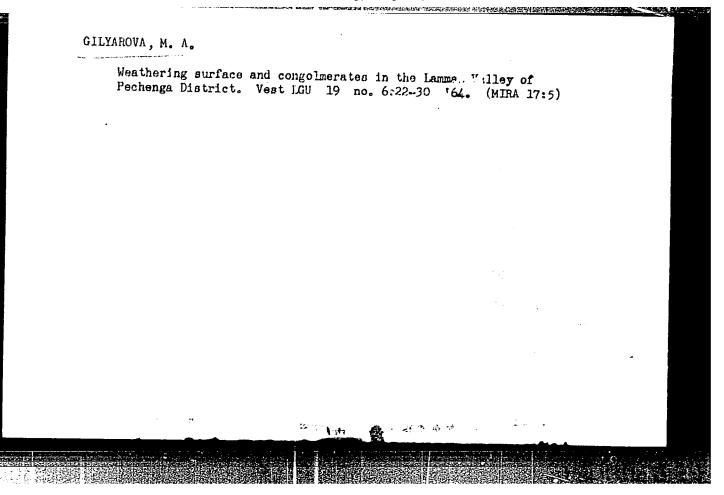


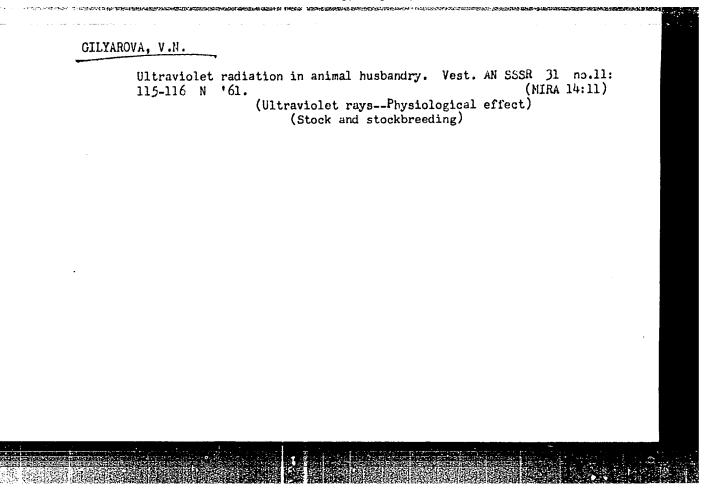


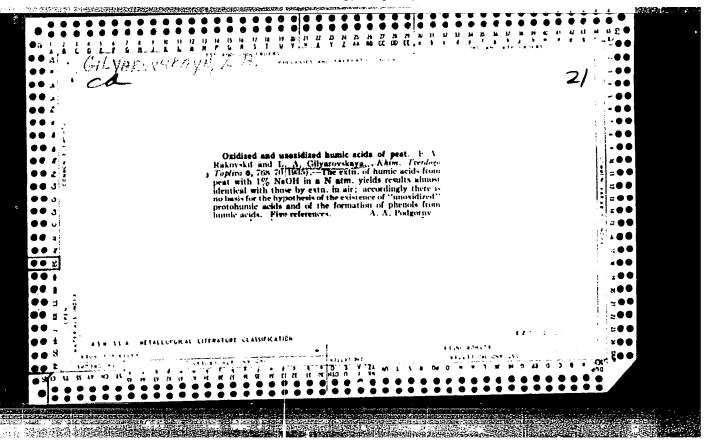


GILYAROVA, M.A.

Karelian basal formations (Lower Proterozoic) in the Parandovo-Nadvoitay region in the Karelian A.S.S.R. Vest. IGU 18 no.18: 15-27 '63. (MIRA 16:11)







GILyarous Kaya, L. A Country H-22 : NORTH KOREA Category : Chemical Technology. Chemical Processing of Solid Possil Fuels Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 50982 : Em Tkhe Den; Gilyarovskaya, L. A.; Pechuro, NS. Author Institute : -Title : Reacteability of Coke Derived from the Korean Brown Coal of the Aodi Region and from Anthracite of the Sanchau Region (KNDR) Orig Pub. : Khvakhak ka khvakhak konop, 1957, No 3, 157-162 Abstract : No abstract. Card: 1/1

AUTHORS:

Em Tkhe Den, Pechuro, N. S.,

Gilyarovskaya, L. A.

SOV 156-58-1-38/46

TITLE:

Use of Movable Checkers for Thermic Coal Processing (Primeneniye

podvizhnykh nasadok dlya termicheskoy pererabotki ugley)

PERIODICAL:

Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya

tekhnologiya, 1958, Nr 1, pp. 157 - 160 (USSR)

ABSTRACT:

Card 1/3

In some production processes a moving laminated solid phase is successfully used as a catalyst, heat carrier, or adsorbent. As investigations of the authors have shown, this principle may be extended to thermal processing of pulverized solid fuels, too. In order to prove the technological possibilities of this method, the authors decomposed two samples of solid fuels showing different properties and heating behavior: a) a boghead from Olenek, an easily meltable fuel, and b) brown coal from Ao-Di(Korea) of low mechanical and thermal strength. Table 1 gives the features of the two coal sorts, table 2

the semicoking products, while table 3 contains some data

on the composition of first gases from this partial carbonization.

Table 4 features the coal tars from both coal sorts. These

Use of Movable Checkers for Thermic Coal Processing

SOV/156 -58-1-38/46

coals were thermally processed on a movable, circulating checker under particular consideration of the variability of gas yield and gas composition with temperature. The pilot plant is shown in figure 1. As a checker cast iron balls of 4,8 mm diam. were used. The grain size of the coal processed was 0,5 to 1,0 mm. In table 5 the products obtained are given, while figures 2 and 3 show the content of combustible gas components, and the gas heating value, depending on the temperature. Besides thermal decomposition of coal from Ao-Di some thermochemical processes have also taken place, whereas processes of thermal decomposition prevailed in processing the boghead from Olenek. The following conclusions were drawn: 1) According to the principle described easily meltable fossil fuels can be processed. 2) Industrial gases can be generated from pulverized fuels under consideration of reagents containing oxygen, with this process. 3) The solid residue can be burned, the generated heat being used for preheating the circulating checker. There are 3 figures, 5 tables, and 3 references, 1 of which is Soviet.

Card 2/3

Use of Movable Checkers for Thermic Coal Processing

SOV/156 58-1-38/46

ASSOCIATION: Kafedra neftekhimicheskogo sinteza i iskusstvennogo zhidkogo topliva Moskovskogo instituta tonkoy khimicheskoy tekhnologii im.M.V.Lomonosova (Chair of Petrochemical Synthesis and Synthetic Liquid Fuels of the Institute of Fine-Chemical

Engineering imeni M.V.Lomonosov, Moscow)

SUBMITTED:

September 20, 1957

Card 3/3

GILYAROVSKAYA, L.A.

Alkylation of phenols by olefins in the presence of fluoroborine dihydrate. Izv. vys. ucheb. zav.; neft' i gaz 2 no.8:63-69 '59.

(MIRA 12:11)

1. Institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova. (Alkylation) (Phenols)

S/020/63/148/006/014/023 B117/B186

AUTHORS:

Bashkirov, A. N., Corresponding Member AS USSR,

Shaykhutdinov, Ye. M., Gilyarovskaya, L. A.

TITLE:

Oxidation of monomethylsubstituted paraffins in liquid phase

in the presence of boric acid

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 148, no. 6, 1963, 1309 - 1311

TEXT: The effect of the tertiary carbon atom on the conversion of monosubstituted paraffins during exidation and on the composition of the alcohols formed is studied. For this purpose, 2-methyldodecane and 8-methylpentadecane were synthetized according to Grignard's method. These hydrocarbons were exidized in an apparatus described previously (A. N. Bashkirov, Khim. nauka i prom., 1, 273 (1956)) under normal pressure at 165 - 170°C for 3 - 4 hrs, using a mixture of nitrogen and exygen with 3.0 - 3.5% O₂ (consumption 800 l/kg·hr). The main conversion products were compounds containing hydroxyl with a yield of ~75 mole%. The alcohols formed were identified as a mixture of tertiary (~25 - 30 mole%) and secondary alcohols having the same carbon skeleton and the same number of C-atoms in the molecule as the original hydrocarbon. The secondary Card 1/2

Oxidation of monomethylsubstituted...

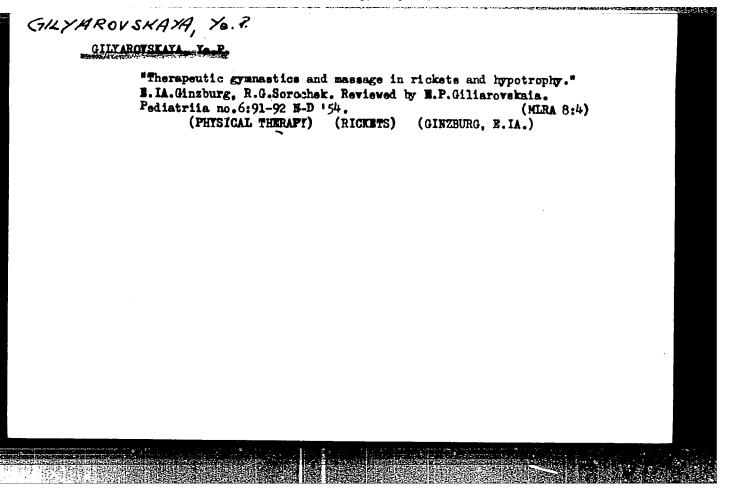
S/020/63/148/006/014/023 B117/B186

alcohols proved to be a mixture of a variety of isomers. Hence it was assumed that, under the oxidation conditions described, the tertiary C-atoms are more reactive with respect to oxygen than the secondary C-atoms of the highest monosubstituted paraffin molecules. There are 3 tables.

ASSOCIATION: Institut neftekhimicheskogo sinteza Akademii nauk SSSR (Institute of Petrochemical Synthesis of the Academy of Sciences USSR); Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M. V. Lomonosova (Moscow Institute of Fine Chemical Technology imeni M. V. Lomonosov)

SUBMITTED: July 26, 1962

Card 2/2



GILYAROVSKAYA, Ye.P.; TIKHOMIROVA, A.V.; BILEYKINA, A.M.; RODIOHOVA, O.S.

Using ozocerite in the compound treatment of dysentery in children. Pediatriia no.8:81-82 Ag '57. (MIRA 10:12)

1. Iz detskoy bol'nitsy imeni F.E.Dzerzhinskogo v Moskve. (OZOCERITE) (DYSENTERY)

GILYAROVSKAYA, Ye.P.; GOLODENKO, G.S.; BUDAGOSSKAYA, G.A.

Treating highmoritis in children by the electrophoretic introduction of penicillin. Pediatriia 37 no.7:88 J1 '59.

(MIRA 12:10)

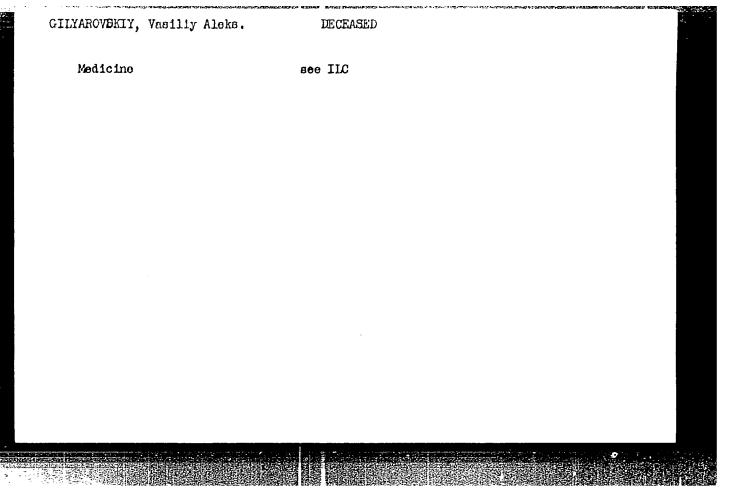
1. Iz detskogo otdeleniya polikliniki No.2 Moskovskogo gorodskogo otdela zdravookhraneniya. (PENICILLIN) (RIECTROPHORESIS) (SINUSITIS)

BASHKIROV, A.N.; GILYAROVSKIY, L.A.; ALEHTYEVA, Ye.S.; KOZLENKOVA, R.V.; KUROCHKINA, A.K.

Effect of aromatic hydrocarbons on the oxidation of paraffins in the liquid phase in the presence of boric acid. Neftekhimiia 4 no.5:777-779 S-0 '64. (MIRA 18:1)

l. Moskovskiy Institut tonkoy khimicheskoy tekhnologii imeni M.V. Lomonosova i Institut neftekhimicheskogo sinteza imeni A.V.Topchiyeva AN SSSR.

V.

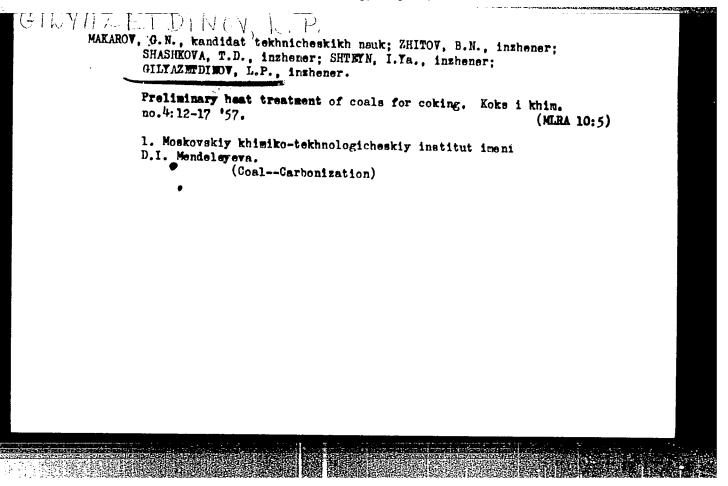


G	GILYAHOVSKIY, VLADIMIR ALEKSEYEVICH							527N/5 587 .04		HANDE V & T
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GILYAROVSKIY, V.A., zasl. deyatel' nauki, red.; FEDOTOV, D.D., red.; SLYUSAREV, F.M., kand. med. nauk, red.; RIKHTER, G.E., kand. med. nauk, red.; FEL'DMAN, E.A., kand. med. nauk, red.

[Transactions of the Scientific and Practical Conference of Neuropathologists and Psychiatrists of the Baltic Republics] Trudy Nauchno-prakticheskoi konferentsii nevropatologov i psikhiatrov Pribaltiiskikh respublik. Riga, M-vo zdravookhraneniia Latviiskoi SSR, 1956. 466 p. (MIRA 17:5)

1. Nauchno-prakticheskaya konferentsiya nevropatologov i psi-khiatrov Pribaltiyskikh respublik, 1954. 2. Deystvitel'nyy chlen AMN SSSR (for Gilyarovskiy). 3. Direktor Instituta psikhiatrii Ministerstva zdravookhraneniya SSSR (for Fedotov).



SOV/138-58-8-2/11

AUTHORS:

Zuyev, V. P; Gilyazetdinov, L. P. and Yevreinova, M. O.

TITLE:

The Chemical Composition of Crude Petroleum Products Used in the Manufacture of Corbon Places (Corbon Places)

in the Manufacture of Carbon Black (O khimicheskom sostave neftyanogo syr'ya dlya proizvodstva sązhi)

PERIODICAL: Kanchuk i Rezina, 1958, Nr 8, pp 12 - 14 (USSR)

ABSTRACT:

The kerosine-gas-oil fraction (obtained during pyrolysis and coking of petroleum) is used as raw material for the preparation of jet carbon black in the USSR. In the USA and England aromatised gas-oil fractions, obtained during the thermal and catalytic processing of petroleum, are used for the manufacture of the activated carbons HAF, ISAF and SAF. No detailed investigations have been published on the effect of the chemical composition of the raw material on the yield and properties of the carbon black. The nature of the gas-cil fraction of crude petroleum and its products is defined by the GrozNII method by which the percentage of aromatic, naphthenic, paraffinic and olefinic hydrocarbons is determined. The authors used the n-d-M method (Ref.3) for definining the composition of the pyrolysis and of the coke distillate. They determined by experiments the molecular weight M, the refractive index n D and the specific weight d 1. The hydrocarbon content was de-

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The Chemical Composition of Crude Petroleum Products Used in the Manufacture of Carbon Black

fined by chromatographic analysis according to the TsIATIM method (Ref.6) and the degree of unsaturation of the samples was determined iodometrically. The physico-chemical characteristics of the samples of raw material are listed in Tables 1 and 2, and results of the chromatographic analysis in Table 3. The total content of pure paraffins and clefins in the pyrolysis fraction does not exceed 5%; therefore, this fraction consists of aromatic and naphthenic-aromatic hydrocarbons, two condensed rings and partially unsaturated side chains. The content of paraffinic-naphthenic hydrocarbon in the coke distillate fraction varies between 40 - 53%. Approximately 50% of this quantity represents pure paraffinic and clefinic hydrocarbons and it comprises 27% dicyclic aromatic hydrocarbons. The degree of aromatisation increases in both

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The Chemical Composition of Crude Petroleum Products Used in the Manufacture of Carbon Black

fractions when the temperature is raised (Table 5). The degree of aromatization and cyclisation can be increased in the coke distillate fraction by boosting the content of high boiling-fractions. There are 5 Tables and 7 References: 3 Soviet and 4 English.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promy-shlennosti (Research Institute of the Tyre Industry)

Card 3/3

307/68-58-11-16/25

AUTHORS: Gilyazetdinev L.P., Evreinova M.D. and Prokhorova L.I.

An Investigation of High Boiling Fractions of Coal Tar using the Method of Chromatographic Analysis (Issledovaniye vysokokipyashchikh fraktsiy kamennougol'noy smoly metodom

khromatograficheskogo analiza)

TITLE:

PERIODICAL: Koks i Khimiya, 1958, Nr 11, pp 51-54 (USSR)

ABSTRACT: An attempt to apply the chromatographic method for determining the group chemical composition of crude unpurified fractions of coal tar is described. The mothod adopted was as fellows: 18g samples were passed through two columns in series filled with silicagel; for desorption the following solvents (200ml each) were used in succession: n-hexane, n-hexane + benzole; benzole, ethyl ether, alcohol-benzene, ethyl alcohol and acetone. Primary identification of desorbed hydrocarbons and organic compounds was based on the colour of the solutions and chromatographic curves This was later confirmed by coefficients of refraction, melting temperatures, molecular weights

(cryoscopy in benzene) and iodine numbers of products freed Card 1/3 from solvents. Physico-chemical characteristics of the

SOV/68-58-11-16/25 An Investigation of High Boiling Fractions of Coal Tar using the Method of Chromatographic Analysis

identified groups of compounds for the investigated coal tar fractions are given in Table 1, physico-chemical characteristics of the coal tar fractions investigated in Table 2, and the results of their chromatographic analysis in Table 3. The following chemical groups were separated:

1) paraffinic, naphthenic and olefinic hydrocarbons,

2) monocyclic aromatic hydrocarbons,

3) naphthenic-aromatic hydrocarbons and phenylalkenes,

4) dicyclic aromatic hydrocarbons and phenylalkenes,

5) phenanthrene group,

6) anthracene group,

7) tricyclic hetero compounds,

8) pyridene bases and

9) phenols and other acid compounds.

On the basis of the chromatographic analysis the number of aromatic rings and the content of carbon in aromatic structures for mean molecule of the samples investigated were calculated, whereupon the molecule weight was taken as the same for all groups and equal to the molecular

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30V/68-58-11-16/25

An Investigation of High Boiling Fractions of Coal Tar using the Method of Chromatographic Analysis

weight of the starting sample. In this way some new characteristics were obtained for the individual coal tar fractions, namely the degree of cyclisation and aromatisation.

There are 3 tables, 1 figure and 9 references (7 Soviet, 2 English).

ASSOCIATION: NII Shinnoy Promyshlennosti (Scientific Research Institute of the Tire Industry)

Card 3/3

S/138/60/000/008/007/015 A051/A029

AUTHORS: Gilyazetdinov, L.P.; Zuyev, V.P.; Livshits, F.B.; Saulina, V.V.

TITLE: The Production of Low-Module Furnace Carbon Blacks From Liquid Shale

Raw Material

STATE OF THE PERSON OF THE PER

PERIODICAL: Kauchuk i Rezina, 1960, No. 8, pp. 32 - 35

TEXT: The effect of the chemical composition of the raw material on the properties of the carbon black was studied on shale oil, shale softener and its mixtures with green oil. The experimental procedure for the production of furnace carbon black with an output capacity of 20kg/h was described in Refs. 1,2. The content of oxygen and oxygen-containing compounds in the liquid shale raw material is 10.9 and 77.8%, respectively, which is a significant difference from green oil. It was established that with an equal specific surface the carbon black produced from shale raw material has significantly lower oil numbers than carbon blacks from green oil. Rubbers containing carbon blacks derived from a shale softener and its mixtures with green oil are close to rubbers with gaseous channel carbon black in their physico-mechanical properties. The carbon blacks from shale raw material produce rubbers with low modulae and high relative elongations. Tests were carried out on semi-active and active carbon blacks and it was noted that the Card 1/2

S/138/60/000/008/007/015 A051/A029

The Production of Lower-Module Furnace Carbon Blacks From Liquid Shale Raw Material

vulcanizates of the standard mixtures based on CK6(SKB). CKC-30 AM (SKS-30 AM) containing shale carbon black had low modulae at high values of the tenacity limit and the specific elongation. With an increase of the shale softener in the initial raw material, the tensile strength changes within the limits of 220 - 257 kg/sm², whereas in modulae with 300% the elongation and specific elongations are equal to 130 + 56 kg/cm² and 470 - 667%, respectively. The low structuralization of the carbon blacks produced from shale raw material and the low modulae of the vulcanizates using these carbon blacks is explained by the specific effect of the exygen organically bound with a raw material molecule on the formation process of the carbon black particles in a turbulent flame. The authors point out that this mechanism has not been completely investigated. They stress the fact that the shale oil and the shale softener can be applied as raw material to the production of special low-module carbon blacks or as a component part of raw material, which gives the carbon black a low structuralization with a wide variety of properties. There are 4 tables and 7 Soviet references.

ASSOCIATION: Nauchno-issledovatel skiy institut shinnoy promyshlennosti (Solentific Research Institute of the Tire Industry)

Card 2/2

S/068/60/000/010/001/001 B071/E435

AUTHORS: Gluzman, L.D., Gilyazetdinov, L.P. and

Molchanov, B.A.

TITLE: On the Utilization of High Boiling Coal Tar Fractions

for the Production of Carbon-Black

PERIODICAL: Koks i khimiya, 1960, No.10, pp.51-54

TEXT: The problem of production of an active carbon black from raw materials derived from the coking by-products and the development of technological and GOST standards for coal tar raw materials for the production of carbon black were investigated. Typical samples of coal-tar oils (creosote absorption oil; a mixture of absorption and anthracene oil; anthracene fraction II; pitch distillate) from the Kadiyevsk and Zaporozhsk Coking Works were taken for the investigation. Physico-chemical characteristics of these oils and, for comparison, of some petroleum oils are given in Table 1. Group-structural analysis of the petroleum and coal tar oils was calculated by the methods given in earlier works (Ref. 3 and 4). The product of the total number of benzene rings in the molecule and the content of carbon in the aromatic structures, named "aromatization factor" Card 1/4

\$/068/60/000/010/001/001 E071/E435

On the Utilization of High Boiling Coal Tar Fractions for the Production of Carbon-Black

(A=KoCa) was conditionally taken as the main physico-chemical characteristic of the raw materials. This index at Ca & 85% characterizes the influence of the chemical composition of the raw material on the yield and properties of carbon black. Testing of coal-tar oils for the production of anthracene carbon black was carried out on an experimental plant with a throughput of 10 kg/hr under the following conditions: consumption of coke-oven gas for the carburization of oils - $10 \text{ m}^3/\text{kg}$; the temperature of the distance between burners carburized mixture - 360 to 380°C; overflow of tar from the and precipitating surface - 46 mm; carburettor - 6 to 9% on the starting raw material. experimental samples of carbon-black did not differ substantially in their physico-chemical and physico-mechanical properties and corresponded to the requirements of GOST 7885-56. of carbon-black from the individual oils are given in Table 2. Testing of the oils for the production of active furnace carbonblack was carried out on a pilot plant NIIShP, described in Ref.5.

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S/068/60/000/010/001/001 E071/E435

On the Utilization of High Boiling Coal Tar Fractions for the Production of Carbon-Black

Technological conditions were kept the same for all types of raw materials; throughput was 20 kg/hr with an air consumption of 6.5 m³/kg, the temperature of the process varied from 1200 to 1300°C depending on the type of raw material. The experimental results are given in Table 3. It was found that coal tar oils in 79 to 92% consist of di- and tri-cyclic aromatic hydrocarbons. The most aromatized is pitch distillate. The yield of active anthracene carbon-black increases with increasing number of rings in the molecule and the content of aromatic carbon in the raw Anthracene fraction and pitch distillate present a high-quality raw material for the production of active anthracene carbon-black. The yield, specific surface and oil number of active furnace carbon black increase with increasing number of rings in the molecule and the content of carbon in aromatic structures of the raw material. In order to obtain moderately structurized carbon-black more suitable for rubber than highly structurized black) absorption creosote oil, anthracene oil, anthracene fraction and mixtures of pitch distillate and

Card 3/4

S/068/60/000/010/001/001 E071/E435

On the Utilization of High Boiling Coal Tar Fractions for the Production of Carbon-Black

anthracene fraction II with petroleum oils can be used. There are 3 tables and 5 references: 3 Soviet, 1 English and 1 German.

ASSOCIATIONS: UKhin, Gluzman, L.D.;

Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute of the Tyre Industry) Gilyazetdinov, L.P.;

Kadiyevskiy sazhevyy zavod (Kadiyevka Carbon Black Works) Molchanov, B.A.

Card 4/4

S/138/61/000/002/006/008 A051/A129

AUTHORS:

Zuyev, V.P.; Gilyazetdinov, L.P.; Tesner, P.A.

TITLE:

The effect of the structural group composition of hydrocarbon oils

on the yield and properties of carbon black

PERIODICAL: Kauchuk i rezina, no. 2, 1961, 29 - 32

TEXT: The authors have investigated the possibility of using a new complex index for characterizing the raw material: the factor of aromatization A, which is the product of the total number of rings in the molecule and the carbon content in aromatic structures: $A = K_0 \cdot C_A$ (1), where K_0 is the total number of rings in the molecule (aromatic + naphthene), C_A is the carbon content in the aromatic structures, \mathcal{K} . The aromatization factor is additive with respect to the molecular parts of the mixture components. The disadvantage of this index is that it cannot be applied to low-aromatized oils, which, however, are hardly used in the production of carbon black. The authors show that this aromatization factor A characterizes the effect of the composition of oil and coal raw materials on the yield and the properties of the carbon black in the same way. With an increase in the aromatization factor, the yield, specific surface and oil number of

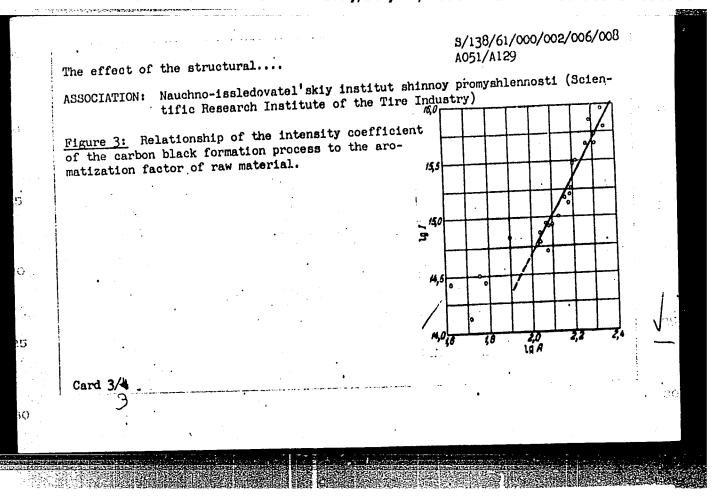
Card 1/4

S/138/61/000/002/006/008 A051/A029

The effect of the structural....

the carbon black increase at the same time. Various forms of petroleum and coal oils and their mixtures were burned experimentally, using equipment with a productivity of 20 kg/h based on the raw material. The relationship of the specific surface of the carbon black S determined by the kinetic method to the aromatization factor is expressed by the equation: $S = 30 + 8.13 \cdot 10^{-4}$. $A^{2.14} \text{ m}^2/\text{g}$ (2). The intensity coefficient of the process of carbon black formation I calculated on the basis of data on the yield and dispersion of the carbon black. This coefficient is the number of carbon black particles formed from one gram of carbon raw material: $I = 3.1 \cdot p \cdot 10^8 \cdot 93 g^{-1}$ (3), where p is the carbon black yield, %. The logarithm of the intensity coefficient has a linear relationship to the logarithm of the aromatization factor of the raw material (Fig. 3). This relationship is expressed by the equation: $I = 8.5 \cdot 10^8 \cdot A^{3.48} \, g^{-1}$ (4). The results showed that the number of carbon black particles formed depends to a great extent on the aromatization factor. The authors point out that an aromatization factor of no less than 140 must be used in the production of jet and lamp oil carbon black with a yield of 56 and 63%, respectively. They also point out that compounds containing sulfur, nitrogen and oxygen increase the specific gravity of the raw material, but their action is not equivalent to the increase in the degree of aromatization of the raw material. There are 4 figures, 1 table and 15

Card 2/3



S/138/62/000/001/002/009 A051/A126

AUTHORS: Gilyazetdinov, L.P.; Zuyev, V.P.; Bernshteyn, I.D.; Suyetenko,

L.P.

TITLE: The production of active furnace carbon blacks from mixtures of pe-

troleum and coal oils

PERIODICAL: Kauchuk i rezina, no. 1, 1962, 5 - 6

TEXT: Tests were carried out to determine the optimum composition of petroleum and coal oil mixtures and the production of active furnace carbon blacks. The experiments were made in a single-chamber cylindrical reactor with an internal diameter of 500 mm and 3.5 m in length. The reactor capacity was 25 kg/h. The experimental carbon blacks were analyzed according to physico-chemical methods and tested in vulcanizates based on CKC-30 AM (SKS-30 AM) (standard composition). Experimental results showed that the active furnace carbon black output, the total air consumption and the process temperature corresponded to the aromatization factor. The obtained relation points to the expediency of a wide introduction of the aromatization factor for characterizing the raw material and for correcting the production methods of the active furnace carbon blacks. Pe-

Card 1/2

The production of active furnace carbon blacks $\frac{5/138/62/000/001/002/009}{A051/A126}$

troleum and coal oil mixtures are recommended. There is 1 table and 1 figure.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute of the Tire Industry)

Card 2/2

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S/081/62/000/014/023/039 B166/B144

AUTHORS:

Molchanov, B. A., Gluzman, L. D., Gilyazetdinov, L. P., Chaykun, K. I.

TITLE:

Pitch distillate, a new form of raw material for the production of carbon black

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 14, 1962, 532, abstract 14M2O4 (Vestn. tekhn. i ekon. inform. N.-i in-t tekhn.-ekon. issled. Gcs. kom-ta Sov. Min. SSSR po khimii, no. 12, 1961, 23 - 24)

TEXT: Industrial test results for a trial batch of pitch distillate (PD) are given, this being got by oxidizing and coking coal-tar pitch to form a highly aromatized product used in the manufacture of carbon black. The industrial process for producing the carbon black is practically the same industrial process for producing the carbon black is practically the same industrial process for producing the carbon black is practically the same industrial process for producing the carbon black have the same physicoestablished that both these forms of carbon black have the same physicoentential properties but the yield of the carbon black from PD is 2.3% chemical properties but the yield of the carbon black from PD is 2.3%

Card 1/2

BLAGOVISNYY, V.I.; GILYAZETDIMOV, L.P.; DOLBILIN, Ye.N.; KORABEL'NIKOVA G.P.;
YAGOVKIN, A.G.

Using liquid stock in the production of furnace black. Gaz. prom.
7 no.11:43-46 N '62.

(MIRA 17:9)

de the mannet of the 1.37 mileir hoere II. 13665-63 EMP(j)/EMT(m)/BDS AFFIC/ASD Pc-4 RM ACCESSION NR: AP3001431 8/0138/63/000/004/0025/0027 AUTHOR: Bass. Yu.P.; Gilyazetdinov, L. P.; Zuev. V. P.; v. v. TITLE: The manufacture of low-structurated active furnace carbon black Kauchuk i rezina, no. 4, 1963, 25-27 SOURCE: TOPIC TAGS: carbon black, carbon black furnace, cyclon reactor. reinforcing filler ABSTRACT: The low yield of parbon black obtained by the channel process induced the authors to attempt the production of a highly dispersed, low-structurated active carbon black from high-aromatic crude oil material, which would possess outstanding properties as a reinforcing filler in rubber goods. To this end it was necessary to construct a special furnace which would permit a more thorough mixing of the gases as well as complete combustion of the selected crude oil with an aromatization factor A of 140. The pilot reactor consisted of a wide, short, properly insulated combustion chamber

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into which the oil-air mixture and 0.2-0.5% water were injected by nozzle. The subsequent combustion and thermic decomposition took place in a long, narrow reaction chamber. The oil was preheated to 100-180C, the temperature within the furnace was within the 1200-1300C range, and the pressure amounted to 0.15-0.20 atm. The resulting carbon black-gas mixture was cooled to 400C by water spray. The yield of carbon black amounted to 24.2-45.4%, with a specific surface of 70-140 Sq m/gm. Tests of rubbers containing the new carbon black as reinforcing filler showed it to be equal in tensile strength and superior in abrasion to that with channel carbon black. Orig. art. has: 2 figures and 1 table.

ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promy*shlennosti (Scientific Research Institute of the Tire Industry)

SUBMITTED: 00

DATE ACQ: 30May63

ENCL: 00

SUB CODE: 00

NO REF SOV: 004

OTHER: 005

2/2

Card

ABAYEVA, B.T.; AGAFONOV, A.V.; GILYAZETDINOV, L.P.; GYUL'MISARYAN, T.G.;
ZUYEV, V.P.; MOROZOV, V.I.

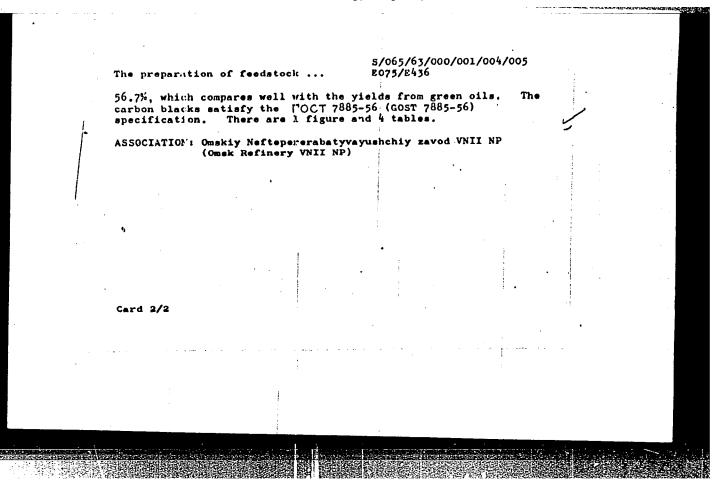
Testing thermocatalytic gas oil in the production of furnace black.
Nefteper. i neftekhim. no.12:17-19 '63. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke
nefti i Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

Production, Laboration of the coling characteristics of the row materials of the properties of furnate black. North. 1 res. 22 moulds (M.SA 1759)

1. Matchno-dashedovabeliskiy institut shinney promychlenovati.

GILYAZET DINOV, L. A. ,2, \$/065/63/000/001/004/005 E075/E436 Morozov, V.I., Agafonov, A.V., Abayeva, B.T., Ryabov, V.A., Karpenko, L.P., Gilyazetdinov, L.P. AUTHORS: The preparation of feedstock carbon black in thermal TITLE: cracking units PERIODICAL: Khimiya i tekhnologiya topliv i masel no.1, 1963, 39-42 TEXT: A threefold increase in the production of carbon black is scheduled in the current 7-year plan. New feedstocks suitable for conversion into carbon black are therefore required to supplement green and anthracene oils used at present. Catalytic gas oils and lubricating oil extracts (phenol extracts) were subjected to thermal cracking to produce oils suitable for the production of carbon black. The cracked oils (43.5, 36.0 and 54.4% yields of the feedstock for light gas oil, heavy gas oil and phenol extract respectively) contained from 70 to 80% of aromatic hydrocarbons, of which at least 50% years heavy contained. of which at least 50% were heavy aromatics. The cost of these oils was about half that of green oil and a quarter of anthracene oil. The yields of carbon black from the oils ranged from 47 to Card 1/2



BASS, Yu.P.; GILYAZETDINOV, L.P.; ZUYEV, V.P.

Investigating the formation of carbon black in the pulverization

Investigating the formation of carbon black in the pulverization of hydrocarbon stock in the turbulent flow of combustion products. Gaz. prom. 8 no.8:35-40 163. (MIRA 17:11)

ABAYEVA, B.T.; OKINSHEVICH, N.A.; AGAFONOV, A.V.; SIDLYARENOK, F.S.; KAZANSKIY, V.L.; GYUL'MISAR'HAN, T.G.; SUYETENKO, L.P.; GILYAZETDINOV, L.P.

Using extracts as stock for the production of active and semiactive carbon black. Nefteper. i neftekhim. no.5:30-33 '64. (MIRA 17:8)

l. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo zhidkogo topliva, Kuybyshevskiy nauchno-issledovatel'skiy institut neftyanoy promyshlennosti i Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

BASS, Yu.P.; GILYAZETDINOV, L.P.

Calculating the length of a soot generator. Inzh.-fiz. zhur. 7 no.8:
114-120 Ag '64. (MIRA 17:10)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti, Moskva.

ZUYEV, V.P.; GILYAZETDINOV, L.P.; GYUL'MISARYAN, T.G.; BERNSHTEYN, I.D.; SAULINA, V.V.; MAGARIL, R.Z.; SEREBRYAKOV, K.F.; BORSHCHEV, B.S.

Extracts of catalytic gas oils as raw stock for the production of furnace black. Khim. i tekh. topl. i masel 9 no.12:6-11 D '64. (MIRA 18:2)

1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti, Omskiy naucho.issledovatel'skiy konstruktorskogo-tekhnologicheskiy institut shinnoy promyshlennosti, Omskiy sazhevyy zavod 1 Kudinovskiy sazhevyy zavod.

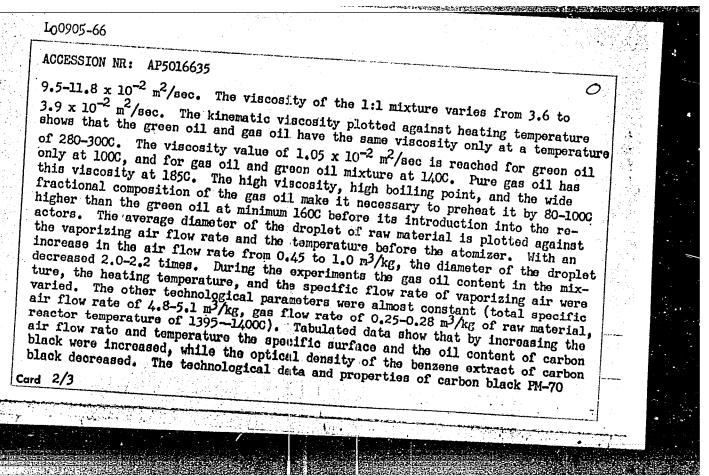
GYUL'MISARYAN, T.G.; FEL'DMAN, V.M.; GILYAZETDINOV, L.P.

Effect of coking properties of raw materials on the properties of furnace black. Nefteper. i neftekhim. no.5:29-32 '165.

(MTRA 18:7)

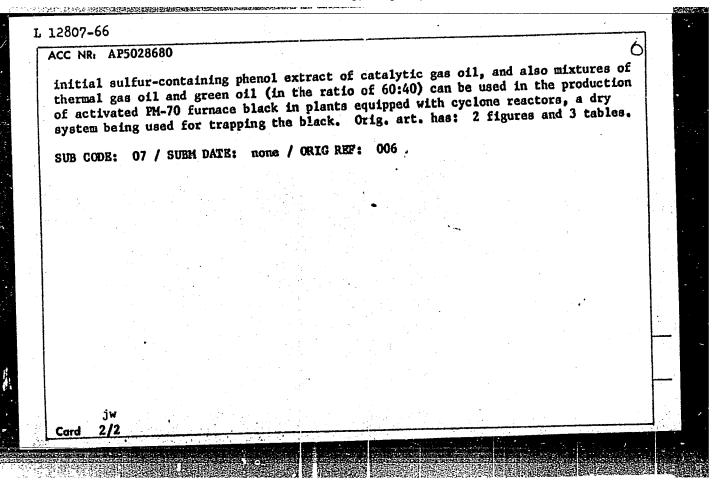
1. Nauchno-issledovatel'skiy institut shinnoy promyshlennosti.

EWT(m)/EPF(c)/EMP(j) RM L00905-66 ACCESSION NR: AP5016635 UR/0138/65/000/006/0019/002 678,046,2,002,2,001,4 AUTHORS: Zuyev. V. P.; Gilvazetdinov. L. P.; Gyul'misaryan. T. G.; Safronov, Ya.; Vernshteyn, I. D.; Glagolev, V. I.; Taygankova, E. I.; Sokolova, V. V.; Bystrov, K. M.; Khokhlov, B. P. TITLE: Some peculiarities of the production of carbon black PM 70 in cyclonetype reactors by using thermocatalytic gas oil SOURCE: Kauchuk i rezina, no. 6, 1965, 19-24 TOPIC TAGS: gas oil fraction, carbon black, catalytic cracking / PM 70 carbon ABSTRACT: The production of active carbon black PM-70 from a 1:1 mixture of thermocatalytic gas oil and green oil was investigated to correct certain technological parameters and to determine the behavior of carbon black during its recovery and processing. The tabulated physico-chemical properties of green oil, and their mixture show that the thermocatalytic gas oil is distinguished by a high polycyclic aromatic hydrocarbon content. The analysis of several gas oil fractions showed that its kinematic viscosity at 500 varies over a range of Card 1/3



100905-66 ACCESSION NR: AP5016635 are tabulated and discussed. It was entablished that the carbon black yield is almost the same as that obtained from pure green oil. The thermophysical properties of the gaseous reaction products of carbon black formation are compared. Vulcanizates obtained with PM-70 carton black have a higher tear strength due to the larger specific surface and oil content. Experimental data show that a carbon black plant equipped with cyclone-type reactors and a dry system of carbon black recovery can be altered to use a mixture of gas oil and green oil. An increase in the vaporizing air flow rate leads to an increased dispersal and oil content of PM-70 carbon black and to the decrease in coking of reactors. It is recommended to increase the air flow rate to 1.0 m3/kg oil. The addition of gas oil to green oil results in the stabilization of the granulation operation on the ASA 1 drums. Orig. art. has: 4 figures and 3 tables. ASSOCIATION: Nauchno-issledovatel'skiy institut shinnoy promyshlennosti (Scientific Research Institute for the Tire Industry); Novo-Yaroslavskiy sazhevyy zavod SUBMITTED: 00 ENCL: 00 SUB CODE: FP, GC NO REF SOV: 005 OTHER: 001 Card 3/3

EWT(m)/EWP(j)/EWP(t)/EWP(b) IJP(c) JD/RM L 12807-66 SOURCE CODE: UR/0318/65/000/011/0025/0028. AP5028680 ACC NR AUTHOR: Gyul'misaryan, T. G.; Gilyazetdinov, L. P.; Aksenova, E. I.; Shmeleva, R. I.; Shokhlov, B. P.; Bystrov, K. M.; Sokolova, V. V.; Sinyakina, A. V.; Abayeva, B. T.; Okinshevich, N. A. ORG: NIIShP; VNIINP: Novo-Yaroslavi Carbon Black Plant (Novo-Yaroslavskiy sazhevyy zavod); Volgograd Carbon Black Plant (Volgogradskiy sazhevyy zavod); Scientific Research Technological Design Institute (Nauchno-issledovatel'skiy konstruktornotekhnologicheskiy institut) TITLE: Industrial tests of new types of petroleum stock in the production of activated PM-70 furnace black SOURCE: Nefteperermbotka i neftekhimiya, no. 11, 1965, 25-28 TOPIC TAGS: activited carbon, petroleum product, gas oil fraction, phenol ABSTRACT: In order to confirm and develop the results of earlier studies which indicated that catalytic and thermal gas oil could be used in the production of activated furnace black, experimental batches of initial sulfur and hydrofined phenol extracts of catalytic and thermal gas oil were produced. The physicochemical characteristics of the new types of petroleum stock are compared with those of green oil; in the degree of aromatization they are identical, but in fractional composition, molecular weight, and viscosity, green oil is slightly lighter. Industrial tests confirmed that hydrofined phenol extracts of catalytic gas oil, the UDC: 66.095.21:547.21.001.5



L. 13771-66 ETT(m)/EMP(1)/EMP(1)/ETT THP(2) TO ACC NR. AP6015643 (A) SOURCE CODE: UR/0413/66/000/009/0054/0054 NVENTOR: Gyul' misaryan, T. G.; Gilyazetdinov, L. P.; Azhishchev, A. F.; 34 Zavidov, V. I. DRG: none TITLE: Method of obtaining furnace carbon black. Class 22, No. 181215 [announced by Scientific Research Institute of the Tire Industry (Nauchno-issledovatel' skiy institut shinnoy promyshlennosti)] SOURCE: Izobreteniya, promyshlennoye obraztsy, tovarnyye znaki, no. 9, 1966, TOPIC TAGS: hydrocarbon, carbon black, furnace earhon-black ABSTRACT: An Author Certificate has been issued for a method of obtaining a furnace carbon black by decomposing liquid hydrocarbon raw material at 1100—1600C using haloid-containing components. To improve the properties of carbon black, the haloid-containing components are added to the raw materials prior to decomposition. Oil distillates are suggested as the hydrocarbon raw material for suggested in the suggested in	A Company of the Additional Additional Section	
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ORG: none TITLE: Method of obtaining furnace carbon black. Class 22, No. 181215 [announced by Scientific Research Institute of the Tire Industry (Nauchno-issledo-vatel' skiy institut shinnoy promyshlennosti)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, TOPIC TAGS: hydrocarbon, carbon black, furnace carbon black ABSTRACT: An Author Certificate has been issued for a method of obtaining a furnace carbon black by decomposing liquid hydrocarbon raw material at 1100—1600C using haloid-containing components. To improve the properties of carbon black, the haloid-containing components are added to the raw materials prior to decomposition. Oil distillates are suggested as the hydrocarbon raw material for decomposition. [Translation] SUE CODE: 11/, SUBM DATE: 07Dec63/	NVENTOR: Gyul' misaryan, T. G.; Gilyazetdinov, L. P.; Azhishchev, A. F.;	
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[announced by Scientific Research Institute of Notice vated skiy institut shinnoy promyshlennosti)] SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 9, 1966, TOPIC TAGS: hydrocarbon, carbon black, furnace carbon black ABSTRACT: An Author Certificate has been issued for a method of obtaining a furnace carbon black by decomposing liquid hydrocarbon raw material at 1100— 1600C using haloid-containing components. To improve the properties of carbon black, the haloid-containing components are added to the raw materials prior to decomposition. Oil distillates are suggested as the hydrocarbon raw material for decomposition. [Translation] SUE CODE: 11/, SUBM DATE: 07Dec63/		i
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	SUB CODE: 11/, SUBM DATE: 07 Dec63/	

GILY AZETDINOV, M.M., inzh.; CHERNYKH, N.P., inzh.

Efficiency of sorting during coal preparation in the STS three-product separator, designed by the Kuznetsk Coal Preparation Research Institut. Nauch.trudy KuzNIIUglaobog. no.219-25 *64. (MIRA 37:10)

Results of industrial testing of the STS-1 three-product separator designed by the Kuznetsk Coal Preparation Research Institute. Ibid.: 25-35

MASAGUTOV, R.M.; SHESTAKOVA, N.M.; MIKHAYLOVA, M.G.; GILYAZEV, N.G.; ZAITOVA, A.Ya.; VOLKOVA, L.I.

Hffect of temperature during calcination on the mechanical strength of catalysts. Khim. i tekh.topl. i masel 4 no.1: 69-71 Ja 159. (MIRA 12:1)

1. Bashkirskiy nauchnc-issledovatel skiy institut neftyanoy promyshlennosti.

(Catalysts)

(MIRA 17:5)

MASAGUTOV, R.M.; DANILOVA, R.A.; ZAITOVA, A.Ya.; GILYAZEV, N.G.; ZAGRYATSKAYA, L.M.; BUGAY, Ye.O.; PRYAKHINA, K.F.

High-temperature catalytic cracking of heavy fractions of straight-run gasoline. Trudy BashNII NP no.6:14-18 '63.

GILYAZETDINOV, M.M., imph.; CHERNYKH, N.P., imph.

Suspended matter from local weighting compounds and results of operation of a new laboratory separator. Nauch. trudy Kuznilugleohog. no.1:5-33 '62. (MIRA 16:8) (Separators (Machines)—Testing)

MASAGUTOV, R.M.; SHESTAKOVA, N.M.; MIKHAYLOVA, M.G.; GILYAZEV, N.G.;
ZAITOVA, A.Ya.; VOLKOVA, L.I.

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DEMICHEV, A.I.; GILYAZITDINOV, K.M.; ALEKSEYEV, V.A.; ROMANCHUK, V.A.

New special-purpose machine tools manufactured at the Sterlitamak
Machine-Tool Flant. Mushinostroitel' no.4:16-17 Ap '63.

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(Sterlitamak--Machine-tool industry)

CHESNGKOV, N.I.; GLUMOVA, Ye.A.; GILYAZOV, G.G.

New system for KhL-2M chromatograph operation. Mash. i neft. obor. no.8:30-31 '63. (MIRA 17:6)

1. Tatarskiy neftyanoy nauchno-issledovatel'skiy institut.

KOGAN, A.A.; MANULKIN, A.Ye.; OIINAZUTDINOVA, Z.Sh.

Prevention of ophthalmia neonatorum with penicillin. Akush. gin.
no.2:18-21 Mar-Apr 1953. (CIML 24:3)

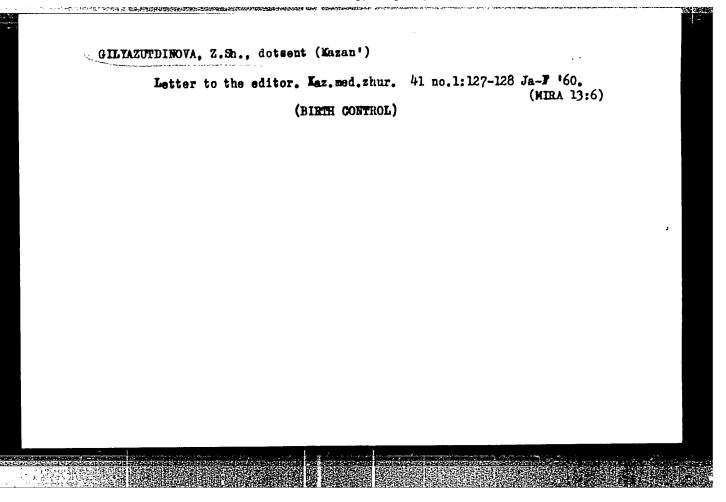
1. Professor for Kogan; Docent for Manulkin. 2. Of the Obstetric-Gynecological Clinic (Head -- Prof. A. A. Kogan), Tashkent Medical Institute.

GILYAZUTDINOVA, Z.Sh., dotsent

Intra-arterial blood transfusion in obstetrical practice. Kaz. med.zhur. 41 no.1:82-85 Ja-F '60. (MIRA 13:6)

1. Iz 2-y kafedry akusherstva i ginekologii (zav. - prof. I.V. Danilov) Kasanskogo gosudarstvennogo instituta dlya usovershenst-vovaniya vrachey im. V.I. Lenina.

(BLOOD--TRANSFUSION) (OBSTETRICS)



GILYAZUTDINOVA, Z.Sh., dotsent; PERFIL'YEVA, G.V., ordinator

Exercise therapy in gynecological and obstetrical practice. Kaz. med. zhur. no.6:51-52 N-D '60. (MIRA 13:12)

1. Kafedra akusherstva i ginekologii (zav. - prof. I.V. Danilov) i kafedra fizioterapii i lechebnoy fizkul'tury (zav. - V.Ye.Dobruskin) Kazanskogo gosudarstvennogo institut dlya usovershenstvovaniya vrachey imeni V.I.Lenina.

(EXERCISE THERAPY) (WOMEN—DISEASES)

Induction of an experimental fibromyoma. Kaz. med. zhur. 4: 33-35 Jl-Ag'63 (MIRA 17:2)

CONTROL OF THE PROPERTY OF THE

1. 2-ya kafedra akusherstva i ginekologii (zav. prof. I.V. Danilov) Kazanskogo gosudarstvennogo instituta dlya usovershenstvovaniya vrachey imeni Lenina.

GILYAZUTDINOVA, Z.Sh., dotsent; VILMIKOV, P.L.; GIBAYDULLEIA, M.V.

Tuberculosis of female genitalia. Kazemed. zhur. no.22
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1. 2-ya kafedra akusherstva i ginekologii (zar-ppof. I.V.
Danilov), kafedra tuberkuleza (zav. - dotsent P.L.Vinnikov)
Kazanskogo gosudarstvennogo inatituta dlya usoverskenstvovaniya vrachey ineni Lenina i 7-ya zhenakaya konsul'tatsiya (glavnyy vrach polikliniki - V.D.Potukin), Kazan'.

GILYAZUTDINOVA, Z.Sh.; PERFIL'YEVA, G.V.

Therapeutic gymnastics in gynecological practice. Vop.
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(MIRA 17:9)

1. Iz kafedry akusherstva i ginekologii (zav.- prof. I.V.
Danilov) i kafedry fizioterapii i lechebnoy fizicheskoy kul'tury Kazanskogo instituta usovershenstvovaniya vrachey.

GILYAZUTDIMOVA, Z.Sh., PERFILTYEVA, G.V.

Exercise therapy in the puerperium. Vop. kur., fizioter.
i loch. fiz. kul't. 28 no.4:350-353 Jl-Ag '64. (MIRA 17:9)

l. Iz kafedry akusherstva i glnekologli (zav.- prof. I.V. Danilov) i iz kafedry fizioterapii i lechebnoy fizioheskoy kul'tury Kazanskogo meditsinskogo instituta.